

~~CONFIDENTIAL~~~~SECRET~~

114 FCS
File RD-71

Chief, Internal Projects Section

13 February 1957

Chief, External Projects Section

25X1

HR-11AA/BD Transistorized Receiver

1. During a recent visit with the [] Engineers regarding the subject receiver, the problem of the inaccurate calibration was discussed at length, along with the steps necessary to obtain correct calibration of the units now in our possession. 25X1

2. [], Section Engineer, stated that the test instruments at [] (the supplier of the tuner units) had been checked and found to be within acceptable limits. This information contradicted such information available to us at an earlier date, and seemed to indicate that something within the set itself is the cause of the problem. Several tests have been run on the units still at Philco, but such tests are so limited in statistical evidence that no concrete conclusions can be deduced. 25X1

3. [] has asked that we run a series of tests on each unit available to us and submit the results to them for analysis. They are particularly interested in determining the repeatability of calibration runs on any given set. Also, it has been suggested that all checks be made as the test point is approached from the low side. This will permit correlation of all tests between the various laboratories. 25X1

4. It has been suggested that the incorrect calibration may be caused by the "set" of cement used in fixing the location of the screws in setting the profile cam, or may be a change in "set" of the profile cam itself. Such a change could be brought about by repeated tuning of the receiver. Another possible answer seems to lie in the adjustment of the padder condenser located on the oscillator panel of the tuner mechanism. [] has suggested we readjust this condenser to bring the receiver close to correct calibration before running any checks on the unit. 25X1

5. For the purpose of this examination, four receivers, numbers 4, 5, 10 and 12 are forwarded in a separate package.

APPROVED:

for Chief, Research & Development Branch

OC-E/R&D-EP/FCS:mjr (12 Feb. 57)
cc: R&D Subject File/OC-E/Rea
Chrono/Dev-ep 25X1

(will go out in 2/18 mail)

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